



GARDEN CITY, GEORGIA

CITY OF GARDEN CITY

2019 CONSUMER CONFIDENCE REPORT

SYSTEM ID #
0510000

**ON AVERAGE, HOW MUCH
WATER IS USED IN A HOME?**

300 GALLONS PER DAY

The purpose of this report is to inform you that the City of Garden City has completed and offered for public review the Consumer Water Quality Report, aka the Consumer Confidence Report (CCR), on the Garden City Water System for the year 2019. Included in this report is information about where your water comes from, what it contains, and how it compares to standards set by the regulatory agencies. The Water Operations Department is committed to providing you, our community, with clean, safe, and reliable drinking water for all of us.

Your water comes from our municipal groundwater wells that are approximately 500 to 1,000 feet deep. This water source is commonly called the Upper Floridan Aquifer and provides an ample amount of water for our community. The City owns four (4) groundwater wells and four (4) elevated storage tanks located throughout the City. These facilities are protected from activities which could potentially cause contamination of our water source. We perform treatment at each of these wells prior to the water entering the distribution system to include chlorine disinfection and fluoride treatment. The table included in this CCR shows that our drinking water gets an excellent report card when compared to health standards.



Sources of drinking water, (both tap water and bottled water) can include rivers, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or underground, it comes into contact with non-point source pollution and naturally occurring minerals resulting from natural conditions and man-made activities. Contaminants that may be present in source water before the City treats it can include:

- Microbial contaminants, such as common bacteria, which can be naturally occurring or the result from stormwater runoff (non-point source pollution) or wastewater discharges (point source pollution).
- Pesticides & herbicides, which may come from a variety of sources and be mobilized in stormwater runoff.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which result from commercial and industrial businesses as well as from gas stations, truck terminals, etc.

In order to ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) sets regulations that limit the amount of contaminants allowed in drinking water provided by public water systems. Additionally, the Food and Drug Administration's (FDA) regulations establish limits for contaminants in bottled water that must provide protection for public health.

POTENTIAL POLLUTION SOURCE (PPS)

INVENTORY:

PPS #	PPS Code
1	T01
2	007
3	004
4	So5
5	008
6	101



The City's Local Wellhead Protection Ordinance can be found in *Chapter 30, Article VI, Sec. 30-300* of the City's Code.

You can [access the Ordinance here](http://www.gardencity-ga.gov/for-residents/code-of-ordinances) or at <http://www.gardencity-ga.gov/for-residents/code-of-ordinances>



**CITY-WIDE WATERING
RESTRICTIONS WATER
RESTRICTIONS STILL IN PLACE!**

The following outdoor watering schedule applies for all of Chatham County:

Odd-numbered addresses may water only on Tuesdays, Thursdays, and Sundays

Even-numbered addresses may water only on Mondays, Wednesdays, and Saturdays

AND REMEMBER:

- **NO WATERING** is allowed between the hours of **10:00 AM to 4:00 PM**; and
- **NO WATERING** is allowed **on Fridays**.

Water customers will be monitored for violations. For water restrictions info go to www.gardencity-ga.gov

Water System: City of Garden City

County: Chatham

System ID: # 0510000

Number of Wells: 4

System Type: Municipal

Population: 8,904 (2013)

Drinking Water Treatment

Contact: Mr. Larry Arnett

Title: Water/Wastewater Project Manager

Address: 2 Bud Brown Drive
Garden City, GA 31408

Phone No: (912) 856-4199

A copy of the **City's Well-Head Protection Plan/Source Water Assessment** can be obtained by contacting the Water Department at 912-629-2296

Alternate Water Source:

- 1) Any single well found to be contaminated would be isolated from the distribution system and the City would then utilize one or all of the remaining three (3) wells to provide a source of uncontaminated potable water.
- 2) The City would utilize the 8" water connection from the City of Savannah
- 3) The City would bring in water by tankertrucks for restricted use.

WATER QUALITY DATA

The following tables list all of the drinking water contaminants that we detected during the 2019 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water possesses a health risk.

Unless otherwise noted, the data presented in these tables is from testing done January-December 2019. EPD requires monitoring for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one (1) year old.



TERMS & ABBREVIATIONS USED IN THE TABLES BELOW:

- **Maximum Contaminant Level Goal (MCLG):** The level of contaminant in the drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.
- **Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as possible using the best available treatment technology.
- **Action Level (AL):** The concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- **N/A:** Not applicable
- **ND:** Not Detectable at testing limit
- **Ppb:** Parts per billion or micrograms per liter
- **Ppm:** Parts per million or milligrams per liter
- **pCi/l:** picocuries per liter (a measure of radiation)

INORGANIC CONTAMINANTS SAMPLING RESULTS							
PARAMETER	MCL	MCLG	GARDEN CITY RESULTS	RANGE OF DETECTION	SAMPLE DATE	VIOLATION?	TYPICAL SOURCE OF CONTAMINANT
Sodium (ug/L)	N/A		11,000	10,000-14,000	2008	NO	Salinity in Drinking Water
Fluoride/ Ppm)	4.0	4.0	0.85	0.42-1.7	2008	NO	Water additive to promote strong teeth
Zinc (ug/L)	N/A		ND	62 - 74	2008	NO	By-products and run off from the land

VOLATILE ORGANIC CONTAMINANTS (VOCs) SAMPLING RESULTS							
PARAMETER	MCL	MCLG	GARDEN CITY RESULTS	RANGE OF DETECTION	SAMPLE DATE	VIOLATION?	TYPICAL SOURCE OF CONTAMINANT
4Bromo fluorobenzene	3.5-6.1		4.36	4.1 - 4.4	2017	NO	By-product of Industrial & Petroleum Process
1,2-Dichlorobenzene	3.6-5.8		ND	4.5 - 4.7	2017	NO	By-product of Industrial & Petroleum Process

LEAD SAMPLING RESULTS							
PARAMETER	MCL	ACTION LEVEL	GARDEN CITY RESULTS	# OF SITES FOUND ABOVE AL	SAMPLE DATE	VIOLATION?	TYPICAL SOURCE OF CONTAMINANT
Lead (ppb)	15	15	6.3	0 out of 20 Samples	2019	NO	Corrosion of Household Plumbing Systems
Copper (ppb)	1300	1300	200	0 out of 20 Samples	2019	NO	Corrosion of Household Plumbing Systems

ABOUT LEAD: Elevated levels can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Garden City is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead> .

ABOUT NITRATE: Nitrate above levels of 10 mg/L is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rain fall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider. Garden City's 2019 test results had 0.20 mg/L of nitrate in the water system. MCL for nitrate is 10 mg/L.



DISINFECTION BY-PRODUCT MONITORING AND REPORTING REQUIREMENT: (Stage I D/DBPR) Garden City's Water System was tested for compliance with Total Trihalomethanes and (5) Haloacetic Acids under the Stage 1 Disinfectants and Disinfections Byproducts Rule. The following are the results of the 2018 analysis.

ANALYTE	RESULTS	UNITS	DATE	MCL
THMs 551				
DECAFLUOROBIPHENYL SS	10.8	ug/L	2019	8.0-12.0
DICHLOROBROMOMETHANE	3.7	ug/L	2019	8.0-12.0
DIBROMOCHLOROMETHANE	2.0	ug/L	2019	8.0-12.0
HALOACETIC ACIDS 552				
SS-2-BPA	4.67	ug/L	2019	3.5-6.5

IS OUR WATER SYSTEM MEETING APPLICABLE RULES THAT GOVERN OUR OPERATIONS? The short answer is YES. EPD and EPA require us to test our water on a regular basis to ensure its safety. The Garden City Water System is classified as a medium water system under EPD and is required under the Safe Drinking Water Act (SDWA) to collect and submit for testing nine (9) water samples per month for Total Coliform to ensure the water is safe for human consumption.

In 2016 the City of Garden City Water System was issued a drinking water monitoring waiver certificate from EPD. This waiver was for asbestos, Dioxin and twenty-eight (28) other synthetic organic compounds, known as SOC's, as well as inorganic constituents, or IOC's. This waiver ended 12/31/2019.

The Garden City Water System is issued a withdrawal permit from EPD which is capped at 1.141 million gallons per day for our source of water. Garden City's Water System averages a 1.0 Chlorine Residual and the range is 0.2-1.2.

The City has won the Platinum Award for complete and consistent Safe Drinking Water Act permit compliance and received a Water Fluoridation Quality Award from the Center for Disease Control (CDC).

In 2019, the Garden City Water System was issued a Notice of Violation (NOV) related to notification and sampling requirements as set forth in the Georgia Safe Drinking Water Rules. The NOV was issued to the City for not fully adhering to applicable notification and resampling protocols. In September 2019, the City received a positive bacteria test at a house with an outdoor sampling spigot that was deemed faulty. Follow up resampling was conducted within 24 hours from a different spigot at the same house and those test results were negative thereby indicating that the first test result was a "false positive" as suspected. However, the repeat sampling protocol also requires the collection of additional samples (i.e. one upstream site, one downstream site, and the source water point) within 24 hours and those samples were not collected as required. All of the required locations were eventually sampled and the results for all of these samples were reported as negative.



WATER CONSERVATION

If you know of or see any water leaks or abuse of water conservation practices, it should be reported to the Garden City Utility Billing Department by calling (912) 963-2752.

WATER CONSERVATION TIPS

1. Set a kitchen timer when watering your lawn or garden to remind you when to stop. A running hose can discharge up to 10 gallons a minute.
2. When the kids want to cool off, use the sprinkler in an area where your lawn needs it the most.
3. Don't use running water to thaw food. Defrost food in the refrigerator for water efficiency and food safety.
4. Collect the water you use for rinsing fruits and vegetables, and then reuse it to water houseplants.
5. Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
6. Don't use the toilet as a trashcan. Every time you flush, you use 3 to 6 gallons of water.
7. Go to www.gardencity-ga.gov/city-government/water-operations/water-saving-tips for 100 easy ways you can conserve water!



Garden City is a *WaterFirst Community!*

This designation demonstrates Garden City's commitment to responsible water resources stewardship for environmental and economic benefits today and in the future.

The City of Garden City is Notifying its Water Customers Through this Special Notice Being Posted in the Local Newspaper and City's Website that the Annual Consumer Confidence Report (CCR) Will Not be Mailed or Delivered to its Customers.

Copies Are Available Upon Request at the Water Department Office, 100 Central Avenue, Garden City, Georgia 31405, or by Calling Larry Arnett at 912-856-4199 or on the City's website at <http://www.gardencity-ga.gov/city-government/water-operations>